

(Base label):

(logo) DowElanco

# Tracer\*

## A broad spectrum worm control product for cotton

Active Ingredients:

Spinosyn A:

2-[(6-deoxy-2,3,4-tri-O-methyl- $\alpha$ -L-mannopyranosyl)oxy]-13-[[5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]oxy]-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16b-tetradecahydro-14-methyl-1H-as-Indaceno[3,2-d]oxacyclododecin-7,15-dione, [2R-[2R\*,3aS\*,5aR\*,5bS\*,9S\*,13S\*(2R\*,5S\*,6R\*),14R\*,16aS\*,16bR\*]](9CI) and

Spinosyn D:

2-[(6-deoxy-2,3,4-tri-O-methyl- $\alpha$ -L-mannopyranosyl)oxy]-13-[[5-(dimethylamino)tetrahydro-6-methyl-2H-pyran-2-yl]oxy]-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16b-tetradecahydro-4,14-dimethyl-1H-as-Indaceno[3,2-d]oxacyclododecin-7,15-dione, [2S-[2R\*,3aS\*,5aR\*,5bR\*,9R\*,13R\*(2S\*,5R\*,6S\*),14S\*,16aR\*,16bR\*]](9CI)

.....	44.2%
Inert ingredients .....	55.8%
Total .....	100.0%

Contains 4 pounds of active ingredient per gallon.

U.S. Patent No. 5,362,634

**Keep Out of Reach of Children**

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### Precautionary Statements

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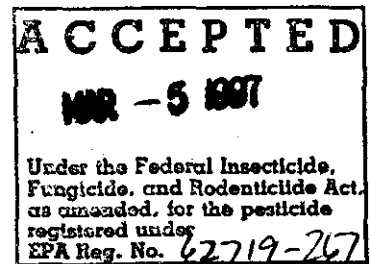
#### Hazards to Humans and Domestic Animals

## CAUTION      PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**Harmful if absorbed through skin.**

**Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.**



### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### First Aid

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

### User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

### Environmental Hazards

This product is highly toxic to bees exposed to direct treatment on blooming crops or other vegetation. Avoid use when bees are actively foraging. Protective information may be obtained from your Cooperative Agricultural Extension Service. This product is highly toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.**

**Notice:** Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

**Shake Well Before Use – Avoid Freezing**

EPA Reg. No. 62719-267

EPA Est. 00000-XX-00

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DowElanco • Indianapolis, IN 46268 U.S.A.

**Naturalyte\* Insect Control**

**Net Contents XXX**

(Datapack cover):

(logo) DowElanco

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### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

### Storage And Disposal

Do not contaminate water, food or feed by storage or disposal.

**Storage:** Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

**Disposal:** Wastes resulting from the use of this product may be disposed of on site according to label use directions or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by incineration if permitted by state and local authorities. If burned, stay out of smoke.

### General Information

Tracer\* Naturalyte\* insect control is a fermentation-derived insect control agent for insect control and management in cotton. The suspension concentrate formulation of Tracer should be mixed with water and applied with air or ground equipment equipped for conventional insecticide spraying.

### General Use Precautions

Do not apply more than 0.45 lb active ingredient (14.4 fl oz) of Tracer per acre per growing season.

**Preharvest Interval:** Do not apply Tracer within 28 days of harvest.

**Chemigation:** Do not apply through any type of irrigation equipment.

### Integrated Pest Management (IPM) Programs:

Tracer insect control is recommended as the foundation of an IPM program in cotton. Tracer should be applied when field scouting indicates that target pest densities have reached the economic threshold, i.e., the point at which the insect population must be reduced to avoid economic losses beyond the cost of control. Other than reducing the target pest species as a food source, Tracer does not significantly reduce certain parasitic insects or the natural predaceous arthropod complex including big-eyed bugs, ladybird beetles, flower bugs, lacewings, minute pirate bugs, damsel bugs, assassin bugs or spiders. When preserved, the feeding activities of these beneficial arthropods aid in the extended natural control of other insects and reduce the likelihood of secondary pest outbreaks for which additional insecticide treatments may be needed. Tracer will not flare aphids or mites. If Tracer is tank mixed with any insecticide that reduces its selectivity in preserving beneficial predatory insects, then the full benefit of Tracer to your IPM program may not be realized.



Add different formulation types in the following order:

1. Water dispersible granules;
2. Wettable powders;
3. Tracer and aqueous suspensions;

Maintain agitation and fill spray tank to 3/4 of total spray volume. Then add:

4. Emulsifiable concentrates and water-based solutions.

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose.

**Premixing:** Dry and flowable formulations may be premixed with water (slurried) and added to the spray tank through a 20-35 mesh screen. This procedure assures good initial dispersion of these formulation types.

### Application

Proper application techniques help ensure thorough spray coverage and correct dosage necessary to obtain optimum control of insect pests. The following recommendations are provided for ground and aerial application of Tracer.

**Ground Application:** Apply in a minimum spray volume of 5 gallons of water per acre. Use power-operated ground spray equipment capable of thorough coverage of the target crop. Orient the boom and nozzles to obtain uniform (crop) coverage (of the crop). Under certain conditions, drop nozzles may be required to obtain uniform coverage. Use flat fan or disc-core hollow cone nozzles suitable for insecticide spraying. Follow manufacturer's recommendations for ideal nozzle spacing and spray pressure. Minimize boom height to optimize coverage uniformity, maximize deposition (optimize on-target deposition), and reduce (spray) drift.

**Band Application:** Band application may be appropriate when cotton is small. Nozzle selection, placement, or shielding to compensate for windy conditions is critical to ensure adequate coverage.

**Aerial Application:** Apply in a total spray volume of 2 to 5 gallons per acre using nozzle configurations which will provide a median droplet size of 200-300 microns (for example: D4-D6 or 6504-6508 nozzles - recommended nozzle angle is 0 degrees straight back to 45 degrees down; or CP nozzles - recommended nozzle angle zero degrees straight back, orifice setting 0.125, deflector medium, speed 120). Boom length must be less than 75% of wing or rotor span. Use minimum safe application height (should not exceed 12 feet above crop canopy). Use swath markers or flagging. The aircraft boom nozzle configurations used should be patterned previously (e.g., at NAAA Fly-In) for both crosswind and near parallel winds. If parallel wind application must be made, swath width should be adjusted downward. Use some swath adjustment (offset) to compensate for increasing crosswinds. Do not apply in dead calm and preferably only when wind speed is between 2-10 mph. Under conditions of low humidity and high temperatures, adjust spray volume and droplet size upward.



## Approved Uses

### Cotton

#### Pests and rates for foliar application:

Pests	Rate per Acre†		
	Pounds Active	Ounces of Product	Acres per Gallon
tobacco budworm cotton bollworm (prebloom) cotton leafperforator European corn borer	0.045 - 0.089	1.4 - 2.9	90 - 45
armyworms (including beet armyworm and fall armyworm) cotton bollworm (postbloom) loopers (including soybean looper and cabbage looper) saltmarsh caterpillar	0.067 - 0.089	2.14 - 2.9	60 - 45

† Use the minimal reapplication interval of 5 days for high rates of application.

**Factors in Rate and Spray Volume Selection - Choose a higher rate within the rate range and higher spray volume when one or more of the following is true:**

- (1) Tobacco budworm and/or cotton bollworm are more than 1/4 inch in length;
- (2) Target pest population is 2X above state threshold level;
- (3) Foliage canopy is tall/dense and worms are present in the lower part of the canopy.

#### Scouting and Application Timing

**Tobacco Budworm and/or Cotton Bollworm:** For the most effective control, fields should be scouted twice per week and application of Tracer made when the majority of the population is within the time of blackhead egg stage to 1/8-inch larval length. The following table illustrates the size of development of worms in relation to age and stage of development (instar) as a guide to timing treatments for optimum control. **Note:** A scouting schedule of only once per week is risky since hatching worms will have grown to third instar before the next scouting observation has determined the need to spray.

Age (Days)	Average Size	Instar
Hatch	1/16"	1st
3	1/4"	2nd
5	1/2"	3rd
8	7/8"	4th
10	1"	5th

**IPM (Considerations):** Where early season conservation of beneficial insects is practical to the success of the IPM program, use Tracer to control first and third generation of tobacco budworm and/or cotton bollworm. Where conservation of beneficial insects is not as critical (for example, fields with early season treatments for boll weevil or non-selective lygus bug treatments), plan to use Tracer to control either the second or third generation of tobacco budworm and/or cotton bollworm.

**Beet Armyworm:** Economic thresholds vary with local conditions and sampling methods. The following is an example of one such method: Apply Tracer when field scouting reveals three or more occurrences of egg hatch or larval feeding per 100 feet of row.

